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CLAIMS

- 1. X-ray camera having an image correction means for correcting brightness of an image obtained by taking an X-ray photograph of a subject body, using a correction factor acquired from a brightness data representing gradation of an image obtained by taking an X-ray photograph of a reference subject.
- 2. The X-ray camera as set forth in claim 1, wherein said correction factor acquired from the brightness data representing gradation of the image obtained by taking the X-ray photograph of said reference subject is set therein for each pixel individually.
- 3. The X-ray camera as set forth in claim 2, wherein a value acquired by dividing a predetermined brightness reference value with a brightness value of each pixel in the image obtained by taking the X-ray photograph of said reference subject is used as a pixel correction factor for said pixel.
- 4. The X-ray camera as set forth in claim 3, wherein said image correction means corrects brightness of each pixel by multiplying a brightness value of said pixel in the image obtained by taking the X-ray photograph of said subject body by said pixel correction factor of the corresponding pixel acquired by taking the X-ray photograph of said reference subject.
- 5. The X-ray camera as set forth in claim 2, wherein a value acquired by dividing an average value of brightness of the image obtained by taking the X-ray

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photograph of said reference subject with the brightness value of each pixel is used as a pixel correction factor for said pixel.

- 6. The X-ray camera as set forth in claim 5, wherein said image correction means corrects brightness of each pixel by multiplying a brightness value of said pixel in the image obtained by taking the X-ray photograph of said subject body by said pixel correction factor of the corresponding pixel acquired by taking the X-ray photograph of said reference subject.
- 7. The X-ray camera as set forth in claim 2, wherein a value acquired by dividing a representative value of brightness of the image obtained by taking the X-ray photograph of said reference subject with the brightness value of each pixel is used as a pixel correction factor for said pixel.
- 8. The X-ray camera as set forth in claim 7, wherein said image correction means corrects brightness of each pixel by multiplying a brightness value of said pixel in the image obtained by taking the X-ray photograph of said subject body by said pixel correction factor of the corresponding pixel acquired by taking the X-ray photograph of said reference subject.
- 9. The X-ray camera as set forth in claim 2, wherein a soft-tissue equivalent material representing muscles and adipose tissue, composed of urethane resin and the like, is used as a reference subject for acquiring said correction factor.

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10. The X-ray camera as set forth in claim 2, wherein a bone-tissue equivalent material composed of epoxy resin, aluminum and the like is used as a reference subject for acquiring said correction factor.

11. The X-ray camera as set forth in claim 2 consprising a storage means for storing a pixel correction factor for each pixel obtained by taking the X-ray photograph of said reference subject, and a correction factor setting means for setting a correction factor, other than ordinary X-ray photography, in order to acquire said correction factor, wherein said X-ray camera can be operated for resetting a correction factor at an arbitrary timing when said equipment is first installed, when a user determines it necessary, and so on.

12. X-ray camera comprising:

a storage means for storing a pixel correction factor for each pixel obtained by taking an X-ray photograph of a reference subject;

a correction factor setting means for setting a correction factor, other than ordinary X-ray photography, in order to acquire said pixel correction factor; and

a correction means for correcting brightness of an image obtained by taking an X-ray photograph of a subject body using said correction factor,

wherein said storage means stores three sorts of correction factors obtained by dividing each of three values by a brightness value of each pixel, said three values being an average value and a representative value of brightness of an image obtained by taking the X-ray photograph of said reference subject, and a predetermined reference brightness value, and

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said correction factor setting means selects one correction factor among said three sorts of correction factors when making correction of brightness of the image obtained by taking the X-ray photograph of said subject body.

13. X-ray camera comprising:

a storage means for storing a correction factor for each pixel obtained by taking an X-ray photograph of a reference subject;

a correction factor setting means for setting a correction factor, other than ordinary X-ray photography, in order to acquire said correction factor; and

a correction means for correcting brightness of an image obtained by taking an X-ray photograph of a subject body using said correction factor,

wherein said storage means stores two sorts of correction factors corresponding to a soft-tissue equivalent material and a bone-tissue equivalent material by taking photographs of said two equivalent materials, and

said correction factor setting means selects one correction factor between said two sorts of correction factors when making correction of brightness of the image obtained by taking the X-ray photograph of said subject body.

14. The X-ray camera as set forth in claim 1, wherein a plurality of X-ray image sensors are arranged in a manner that a portion of photographed image overlaps with one another, in order to take an X-ray image of an expanded size without an error of brightness in the overlapped portion.

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